

## MVP Publications – April 2021



U.S. Department of Veterans Affairs

Veterans Health Administration  
Office of Research & Development

Associated MVP Project or Core Team	Publication Title	First Author(s)	Last Author(s)	Journal	Year	PMID/Journal
CSP572, MVP000	Genome-Wide Association Studies of Schizophrenia and Bipolar Disorder in a Diverse Cohort of US Veterans	Bigdeli, Tim	Harvey, Philip	Schizophrenia Bulletin	2020	<a href="#">33169155</a>
CSP575b	Genomics of Posttraumatic Stress Disorder in Veterans: Methods and Rationale for Veterans Affairs Cooperative Study #575B	Radhakrishnan, Krishnan	Gelernter, Joel	International Journal of Methods in Psychiatric Research	2019	<a href="#">30767326</a>
CSP575b	Validation of an Electronic Medical Record-Based Algorithm for Identifying Posttraumatic Stress Disorder in US Veterans	Harrington, Kelly	Cho, Kelly	Journal of Traumatic Stress	2019	<a href="#">31009556</a>
CSP575b	Genomewide Association Study of Maximum Habitual Alcohol Intake in >140,000 US European- and African-American Veterans Yields Novel Risk Loci	Gelernter, Joel	Stein, Murray	Biological Psychiatry	2019	<a href="#">31151762</a>
CSP575b	Genomewide Association Study of Posttraumatic Stress Disorder Re-Experiencing Symptoms in >165,000 US Veterans Yields New Biological Knowledge	Gelernter, Joel	Stein, Murray	Nature Neuroscience	2019	<a href="#">31358989</a>
CSP575b	International meta-analysis of PTSD genome-wide association studies identifies sex- and ancestry-specific genetic risk loci	Nievergelt, CM	Koenen, KC	Nature Communications	2019	<a href="#">31594949</a>
CSP575b	Reproducible Genetic Risk Loci for Anxiety: Results From ~200,000 Participants in the Million Veteran Program	Levey, Daniel	Stein, Murray	The American Journal of Psychiatry	2020	<a href="#">31906708</a>
CSP575b	Genome-wide association analyses of post-traumatic stress disorder and its symptom subdomains in the Million Veteran Program	Stein, Murray	Gelernter, Joel	Nature Genetics	2021	<a href="#">33510476</a>

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MVP000	The Structure of Relationships between the Human Exposome and Cardiometabolic Health: The Million Veteran Program	Ivey, Kerry L.	Djousse, Luc	Nutrients	2021	<a href="#">33921792</a>
MVP000	Racial and Ethnic Disparities in U.S. Veteran Health Characteristics	Ward, Rachel E.	Whitbourne, Stacey B.	International Journal of Environmental Research and Public Health	2021	<a href="#">33801200</a>
MVP000	High-throughput Multimodal Automated Phenotyping (MAP) with Application to PheWAS	Liao, Katherine	Cai, Tianxi	Journal of the American Medical Informatics Association	2019	<a href="#">JAMIA</a>
MVP000	Baseline Characterization and Annual Trends of Body Mass Index for a Mega Biobank Cohort of US Veterans 2011-2017	Nguyen, Xuan-Mai	Cho, Kelly	Journal of Health Research and Reviews	2018	<a href="#">JHRR</a>
MVP000	Prevalence of Ideal Cardiovascular Health Metrics in the Million Veteran Program	Nguyen, Xuan-Mai	Djousse, Luc	American Journal of Cardiology	2018	<a href="#">29753396</a>
MVP000	Million Veteran Program: A mega-biobank to study genetic influences on health and disease	Gaziano, Michael	O'Leary, Timothy	Journal of Clinical Epidemiology	2016	<a href="#">26441289</a>
MVP000	Gender Differences in Demographic and Health Characteristics of the Million Veteran Program Cohort	Harrington, Kelly	Whitbourne, Stacey	Women's Health Issues	2019	<a href="#">31253243</a>
MVP000, CHAMPION	Standardized Architecture for a Mega-Biobank Phenomic Library: The Million Veteran Program (MVP)	Knight, Kathryn E	Cho, Kelly	American Medical Informatics Association (AMIA) – Joint Summits on Translational	2020	<a href="#">32477652</a>

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				Science proceedings		
MVP000, CHAMPION	JSONize: A Scalable Machine Learning Pipeline to Model Medical Notes as Semi-structured Documents	Rush, Everett	Begoli, Edmon	American Medical Informatics Association (AMIA) – Joint Summits on Translational Science proceedings	2020	<a href="#">32477675</a>
MVP000, MVP001	Consumption of potatoes and incidence rate of coronary artery disease: The Million Veteran Program	Bodar, Vijaykumar	Djousse, Luc	Clinical Nutrition ESPEN	2021	<a href="#">33745578</a>
MVP000, MVP001	Fried Food Consumption and Risk of Coronary Artery Disease: The Million Veteran Program	Honerlaw, Jacqueline	Djousse, Luc	Clinical Nutrition	2019	<a href="#">31279615</a>
MVP000, MVP001	Alcohol Consumption and Risk of Coronary Artery Disease (From The Million Veteran Program)	Song, Rebecca	Djousse, Luc	American Journal of Cardiology	2018	<a href="#">29580627</a>
MVP000, MVP001	Omega-3 supplement use, fish intake, and risk of non-fatal coronary artery disease and	Ward, Rachel	Djousse, Luc	Clinical Nutrition	2019	<a href="#">30914216</a>
MVP000, MVP001	DASH Score and Subsequent Risk of Coronary Artery Disease: The Findings From Million Veteran Program	Djousse, Luc	Gaziano, Michael	Journal of the American Heart Association	2018	<a href="#">29680824</a>
MVP000, MVP001, MVP003, MVP028	PCSK9 loss of function is protective against extra-coronary atherosclerotic cardiovascular disease in a large multi-ethnic cohort	Small, Aeron	Damrauer, Scott	PLoS One	2020	<a href="#">33166319</a>
MVP000, MVP003	The relationship between circulating lipids and breast cancer risk: A Mendelian randomization study	Johnson, Kelsey Klarin, Derek	Voight, Derek	PLoS Medicine	2020	<a href="#">32915777</a>

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MVP001	Egg consumption and risk of coronary artery disease in the Million Veteran Program	Djousse, Luc	Cho, Kelly	Clinical Nutrition	2020	<a href="#">31902601</a>
MVP001	A phenotyping algorithm to identify acute ischemic stroke accurately from a national biobank: the Million Veteran Program	Imran, Tasnim	Cho, Kelly	Clinical Epidemiology	2018	<a href="#">30425582</a>
MVP001, MVP002, MVP003	Association of APOL1 Risk Alleles with Cardiovascular Disease in African Americans in the Million Veteran Program	Bick, Alexander Akwo, Elvis Robinson-Cohen, Cassieanne Lee, K	Hung, Adriana Damrauer, Scott	Circulation	2019	<a href="#">31337231</a>
MVP001, MVP002, MVP003	Trans-ethnic association study of blood pressure determinants in over 750,000 individuals	Giri, Ayush Hellwege, Jacklyn Keaton, Jacob Park, Jihwan	Susztak, Katalin O'Donnell, Christopher Hung, Adriana Edwards, Todd	Nature Genetics	2019	<a href="#">30578418</a>
MVP001, MVP003	Genome-wide association study of peripheral artery disease in the Million Veteran Program	Klarin, Derek	Damrauer, Scott Tsao, Philip	Nature Medicine	2019	<a href="#">31285632</a>
MVP001, MVP003	Effects of Genetic Variants Associated with Familial Hypercholesterolemia on Low-Density Lipoprotein Cholesterol Levels and Cardiovascular Outcomes in the Million Veteran Program	Sun, Yan	Wilson, Peter	Circulation Genomics and Precision Medicine	2018	<a href="#">31106297</a>
MVP001, MVP003	Genetics of blood lipids among ~300,000 multi-ethnic participants of the Million Veteran Program	Klarin, Derek Damrauer, Scott	Assimes, Themistocles Wilson, Peter Rader, Daniel Kathiresan, Sekar Tsao, Philip O'Donnell, Christopher	Nature Genetics	2018	<a href="#">30275531</a>

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MVP001, MVP003	Genomic and Transcriptomic Association Studies Identify 16 Novel Susceptibility Loci for Venous Thromboembolism	Lindstrom, S	Smith, NL	Blood	2019	<a href="#">31420334</a>
MVP001, MVP003	Harmonizing genetic ancestry and self-identified race/ethnicity in genome-wide association studies	Fang, H	Tang, H	American Journal of Human Genetics	2019	<a href="#">31564439</a>
MVP001, MVP003	Genetic determinants of increased body mass index mediate the effect of smoking on increased risk for type 2 diabetes risk but not coronary artery disease	Thom, Christopher S.	Voight, Benjamin F.	Human Molecular Genetics	2020	<a href="#">32833022</a>
MVP001, MVP002, MVP003	Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits	Evangelou, Evangelos Warren, Helen Mosen-Ansorena, David Mifsud, Borbala Pazoki, Raha Gao, He Ntritsos, Georgios Dimou, Niki Tzoulaki, Ioanna Barnes, Michael Wain, Louise Elliott, Paul Caulfield, Mark	Hung, Adriana O'Donnell, Christopher Edwards, Todd Psaty, Bruce Tzoulaki, Ioanna Barnes, Michael Wain, Louise Elliott, Paul Caulfield, Mark	Nature Genetics	2018	<a href="#">30224653</a>
MVP001, MVP002, MVP003	Mapping eGFR loci to the renal transcriptome and phenotype in the VA Million Veteran Program	Hellwege, Jacklyn Velez Edwards, Digna Giri, Ayush	Susztak, Katalin Edwards, Todd Hung, Adriana	Nature Communications	2019	<a href="#">31451708</a>
MVP001, MVP003	Association of Interleukin 6 Receptor Variant With Cardiovascular Disease Effects of Interleukin 6 Receptor Blocking Therapy: A Phenome-Wide Association Study	Cai, Tianxi Zhang, Yichi	Liao, Katherine	JAMA Cardiology	2018	<a href="#">30090940</a>

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MVP001, MVP003	Genome-wide association analysis of venous thromboembolism identifies new risk loci and genetic overlap with arterial vascular disease	Klarin, Derek	Natarajan, Pradeep Damrauer, Scott	Nature Genetics	2019	<a href="#">5395047</a>
MVP001, MVP003	Exome-wide association study of plasma lipids in >300,000 individuals	Liu, Dajiang Peloso, Gina Yu, Haojie Butterworth, Adam Wang, Xiao Mahajan, Anubha Saleheen, Danish Emdin, Connor Willer, Cristen Kathiresan, Sekar	Howson, Joanna Danesh, John McCarthy, Mark Cowan, Chad Abecasis, Goncalo Deloukas, Panos Musunuru, Kiran Willer, Cristen Kathiresan, Sekar	Nature Genetics	2017	<a href="#">29083408</a>
MVP001, MVP003	Mendelian Randomization Analysis of Hemostatic Factors and Their Contribution to Peripheral Artery Disease	Small, Aeron Huffman, Jennifer E	Damrauer, Scott	AHA Arteriosclerosis, Thrombosis, & Vascular Biology	2020	<a href="#">32847391</a>
MVP001, MVP003	Chromosome 1q21.2 and additional loci influence risk of spontaneous coronary artery dissection and myocardial infarction	Saw, Jacqueline	Ganesh, Santhi	Nature Communications	2020	<a href="#">32887874</a>
MVP001, MVP002, MVP027	Associations of biogeographic ancestry with hypertension traits	Keaton, Jacob M.	Velez Edwards, Digna R.	Journal of Hypertension	2021	<a href="#">33534346</a>
MVP002	Genome-Wide Association Study of Apparent Treatment-Resistant Hypertension in the CHARGE Consortium: The CHARGE Pharmacogenetics Working Group	Irvin, MR	Ahluwalia, TS Arnett, AK Avery, CL	American Journal of Hypertension	2019	<a href="#">31545351</a>
MVP002	Genome-wide association meta-analyses and fine-mapping elucidate pathways	Teumer, Alexander Li, Yong Ghasemi, Sahar	Butterworth, Adam Hung, Adriana	Nature Communication	2019	<a href="#">31511532</a>

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	influencing albuminuria	Prins, Bram Wuttke, Matthias Hermle, Tobias	Pattaro, Cristian Kottgen, Anna			
MVP002	Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels	Tin, A Marten, J Halperin Kuhns, VL Li, Y Wuttke, M Kirsten, H	Hung, AM Teumer, A Pattaro, C Woodward, OM Vitart, V Köttgen, A	Nature Genetics	2019	<a href="#">31578528</a>
MVP002	A catalog of genetic loci associated with kidney function from analyses of a million individuals	Wuttke, Matthias Li, Yong Li, Man Sieber, Karsten Feitosa, Mary Gorski, Mathias	Heid, Iris Scholz, Markus Teumer, Alexander Kottgen, Anna Pattaro, Cristian	Nature Genetics	2019	<a href="#">31152163</a>
MVP003	Genetic predisposition to smoking in relation to 14 cardiovascular diseases	Larsson, Susanna	Burgess, Stephen	European Heart Journal	2020	<a href="#">32300774</a>
MVP003	Urate, Blood Pressure, and Cardiovascular Disease: Evidence From Mendelian Randomization and Meta-Analysis of Clinical Trials	Gill, Dipender	Tzoulaki, Ioanna	Hypertension	2021	<a href="#">33356394</a>
MVP003	Genetics of Smoking and Risk of Atherosclerotic Cardiovascular Diseases: A Mendelian Randomization Study	Levin, Michael	Voight, Benjamin	JAMA Network Open	2021	<a href="#">33464320</a>
MVP003 MVP000	Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program	Klarin, Derek	Tsao, Philip	Circulation	2020	<a href="#">32981348</a>
MVP003 MVP004	Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations	Kranzler, Henry Zhou, Hang Kember, Rachel	Gelernter, Joel	Nature Communications	2019	<a href="#">30940813</a>
MVP003, MVP028	Multi-trait association studies discover pleiotropic loci between Alzheimer's disease and cardiometabolic traits	Bone, William P.	Voight, Benjamin F.	Alzheimer's Research & Therapy	2021	<a href="#">33541420</a>

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MVP003, MVP028	Validating a non-invasive, ALT-based non-alcoholic fatty liver phenotype in the million veteran program	Serper, Marina	Chang, Kyong-Mi	PLoS One	2020	<a href="#">32841307</a>
MVP003 MVP028	Discovery of 318 new risk loci for type 2 diabetes and related vascular outcomes among 1.4 million participants in a multi-ancestry meta-analysis	Vujkovic, Marijana	Saleheen, Danish	Nature Genetics	2020	<a href="#">32541925</a>
MVP004	Longitudinal drinking patterns and their clinical correlates in Million Veteran Program participants	Vickers Smith, Rachel Kranzler, Henry Justice, Amy	Tate, Janet	Alcoholism Clinical and Experimental Research	2018	<a href="#">30592535</a>
MVP004	AUDIT-C and ICD codes as phenotypes for harmful alcohol use: Association with ADH1B polymorphisms in two US populations	Justice, Amy Smith, Rachel Tate, Janet McGinnis, Kathleen Xu, Ke Becker, William Lee, Kuang-Yao Lynch, Kevin Sun, Ning Concato, John Fiellin, David Zhao, Hongyu Gelernter, Joel	Kranzler, Henry	Addiction	2018	<a href="#">29972609</a>
MVP004	Using DNA methylation to validate an electronic medical record phenotype for smoking	McGinnis, Kathleen Justice, Amy Tate, Janet Kranzler, Henry Tindle, Hiliary Becker, William Concato, John Gelernter, Joel Li, Boyang Zhang Xinyu	Xu, Ke	Addiction Biology	2018	<a href="#">30284751</a>

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		Zhao, Hongyu Crothers, Kristina				
MVP004	Validating harmful alcohol use as a phenotype for genetic discovery using phosphatidylethanol and a polymorphism in ADH1B	Justice, Amy McGinnis, Kathleen Tate, Janet Xu, Ke Becker, William Zhao, Hongyu Gelernter, Joel	Kranzler, Henry	Alcoholism Clinical and Experimental Research	2017	<a href="#">28295416</a>
MVP004	Association of OPRM1 Functional Coding Variant With Opioid Use Disorder: A Genome-Wide Association Study	Zhou, Hang	Gelernter, Joel	JAMA Psychiatry	2020	<a href="#">32492095</a>
MVP004	Genome-wide association study of smoking trajectory and meta-analysis of smoking status in 842,000 individuals	Xu, Ke Li, Boyang	Justice, Amy	Nature Communications	2020	<a href="#">33082346</a>
MVP004 CSP575b MVP025	Genome-wide meta-analysis of problematic alcohol use in 435,563 individuals yields insights into biology and relationships with other traits	Zhou, Hang	Gelernter, Joel	Nature Neuroscience	2020	<a href="#">32451486</a>
MVP005	Genetically-guided algorithm development and sample size optimization for age-related macular degeneration cases and controls in electronic health records from the VA Million Veteran Program	Halladay, Chris	Crawford, Dana	AMIA Joint Summits on Translational Science Proceedings	2019	<a href="#">31258967</a>
MVP010	Novel Risk Loci in Tinnitus and Causal Inference With Neuropsychiatric Disorders Among Adults of European Ancestry	Clifford, Royce	Nievergelt, Caroline	JAMA Otolaryngology - Head & Neck Surgery	2020	<a href="#">32970095</a>
MVP035	Actionable druggable genome-wide Mendelian randomization identifies repurposing opportunities for COVID-19	Gaziano, Liam	Casas, Juan P.	Nature Medicine	2021	<a href="#">33837377</a>

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MVP Genomic Working Group	Genotyping Array Design and Data Quality Control in the Million Veteran Program	Hunter-Zinck, Haley	Pyarajan, Saiju	American Journal of Human Genetics	2020	<a href="#">32243820</a>
Collaboration	Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study	Hu, Yao	Peters, Ulrike	PLOS Genetics	2020	<a href="#">32226016</a>
Collaboration	A missense variant in Mitochondrial Amidoxime Reducing Component 1 gene and protection against liver disease	Emdin, Connor	Kathiresan, Sekar	PLOS Genetics	2020	<a href="#">32282858</a>
Collaboration	The Polygenic and Monogenic Basis of Blood Traits and Diseases	Vuckovic, Dragana	Soranzo, Nicole	Cell Press	2020	<a href="#">32888494</a>
Collaboration	Trans-ethnic and Ancestry-Specific Blood-Cell Genetics in 746,667 Individuals from 5 Global Populations	Chen, Ming-Huei	Lettre, Guillaume	Cell Press	2020	<a href="#">32888493</a>